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TITLE: Apparatus and method for
measuring color of a measurement object

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INVENTOR-INFORMATION:

NAME	STATE	ZIP CODE	CITY	COUNTRY
Yamaguchi; Wataru			Toyokawa	
	N/A	N/A		JP
Ota; Mitsunobu			Shinshiro	
	N/A	N/A		JP

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ABSTRACT:

A color measuring apparatus is provided with a radial illumination unit for projecting illumination light to a measurement object at a first illumination

angle in a plurality of directions, a
unidirectional illumination unit for
projecting illumination light to the measurement
object at a second
illumination angle in a single direction, a
unidirectional light receiving unit
for receiving a light ray reflected at a first
angle .theta.1 from the
direction of regular reflection out of illumination
light projected from the
radial illumination unit and reflected by the
measurement object, and a light
ray reflected at a second angle .theta.2 from the
direction of regular
reflection out of illumination light projected from
the unidirectional
illumination unit and reflected by the measurement
object, the second angle
.theta.2 being larger than the first angle
.theta.1, and a processing unit for
calculating a color value at the first angle
.theta.1 and a color value at the
second angle .theta.2 based on an output of the
unidirectional light receiving
unit.

23 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

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Current US Cross Reference Classification - CCXR
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